

AMENDMENTS TO THE SPECIFICATION:

Please replace paragraph [0015] at page 4 with the following amended paragraph:

[0015] Figure 1C illustrates the nucleotide components that comprise one embodiment of the selection system of the present invention, the BDNA, LDNA, P1, P2, and P3 oligonucleotides shown therein having the nucleotide sequences of SEQ ID NOs:1-5, respectively;

Please replace paragraph [0020] at page 5 with the following amended paragraph:

[0020] Figure 5A illustrates a library sequence (SEQ ID NO:27) used in the aptamer selection method;

Please replace paragraph [0021] at page 5 with the following amended paragraph:

[0021] Figure 5B illustrates the sequences of several anti-ATP aptamers selected according to the method of the present invention; more specifically, ATP Aptamers 1ATP1-3, 2ATP1-5, and 3ATP1 shown in this figure have the nucleotide sequences of SEQ ID NOs:6-14, respectively;

Please replace paragraph [0022] at page 5 with the following amended paragraph:

[0022] Figure 5C illustrates the sequences of several anti-GTP aptamers; i.e., 1GTP1-5 having the nucleotide sequences of SEQ ID NOs:15-19;

Please replace paragraph [0023] at page 5 with the following amended paragraph:

[0023] Figure 6A illustrates the oligonucleotide assembly structure used for selection of signaling aptamers; the oligonucleotides in this figure have the same nucleotide sequences as the counterparts in Figure 1C.

Please replace paragraph [0024] at page 5 with the following amended paragraph:

[0026] Figure 6B illustrates the sequences of several chosen ATP and GTP aptamer sequences including primer binding domains. Aptamers 1ATP1, 2ATP1,

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2ATP5, 3ATP1, 1GTP1, 1GTP2, and 1GTP5 have the nucleotide sequences of SEQ ID
NOs: 20-26, respectively.